

EduSahara™ Learning Center Assignment**Grade : Class IX, CBSE****Chapter : Number Systems****Name : Multiplication of Real Numbers**

1. $2\sqrt{6} \times 3\sqrt{5} =$

(i) $\sqrt{1080}$ (ii) 1080 (iii) $\sqrt[4]{1080}$ (iv) $\sqrt{1077}$ (v) $\sqrt{1083}$

2. $(-2\sqrt{8}) \times 8\sqrt{9} =$

(i) $(-96\sqrt{\frac{1}{2}})$ (ii) (-192) (iii) $(-96\sqrt[4]{2})$ (iv) $(-96\sqrt{5})$ (v) $(-96\sqrt{2})$

3. $(-8\sqrt{8} - 9\sqrt{3}) \times (6\sqrt{2} - 5\sqrt{9}) =$

(i) $(-192 - 54\sqrt[4]{6} + 240\sqrt{2} + 135\sqrt{3})$

(ii) $(-192 - 54\sqrt{6} + 240\sqrt{2} + 135\sqrt{5})$

(iii) $(-192 - 54\sqrt{6} + 240\sqrt[4]{2} + 135\sqrt{3})$

(iv) $(-194 - 54\sqrt{6} + 240\sqrt{2} + 135\sqrt{3})$

(v) $(-192 - 54\sqrt{6} + 240\sqrt{2} + 135\sqrt{3})$

4. $\frac{13}{\sqrt{5}} \times \frac{13}{\sqrt{2}} =$

(i) $\frac{13}{\sqrt{8}}$ (ii) $\frac{11}{\sqrt{10}}$ (iii) $\frac{13}{\sqrt{12}}$ (iv) $\frac{15}{\sqrt{10}}$ (v) $\frac{13}{\sqrt{10}}$

5. $\frac{\quad}{2\sqrt{7}} \times \frac{\quad}{2\sqrt{2}} =$

(i) $\sqrt{222}$ (ii) $\sqrt[4]{224}$ (iii) $\sqrt[4]{224}$ (iv) $\sqrt{227}$ (v) $\sqrt{224}$

6. $6\sqrt{4} \times 9\sqrt{9} =$

(i) 324 (ii) 321 (iii) 323 (iv) 325 (v) 327

7. $(6\sqrt{2} - 9\sqrt{9}) \times (-2\sqrt{3} + 4\sqrt{9}) =$

(i) $(-12\sqrt{6} + 54\sqrt{3} + 72\sqrt{2} - 324)$

(ii) $(-12\sqrt{3} + 54\sqrt{3} + 72\sqrt{2} - 324)$

(iii) $(-12\sqrt{6} + 54\sqrt{3} + 72\sqrt{2} - 322)$

(iv) $(-12\sqrt{6} + 54\sqrt[4]{3} + 72\sqrt{2} - 324)$

(v) $(-12\sqrt{6} + 54\sqrt{3} + 72\sqrt[4]{2} - 324)$

8. $\frac{12}{\sqrt{2}} \times \frac{12}{\sqrt{7}} =$

(i) $\frac{14}{\sqrt{14}}$ (ii) $\frac{12}{\sqrt{14}}$ (iii) $\frac{10}{\sqrt{14}}$ (iv) $\frac{12}{\sqrt{16}}$ (v) $\frac{12}{\sqrt{11}}$

Assignment Key

- 1) (i)
- 2) (v)
- 3) (v)
- 4) (v)
- 5) (v)
- 6) (i)
- 7) (i)
- 8) (ii)